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Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/693,169	
		Filing Date	2003-10-23	
		First Named Inventor	WALLACE; Mark S.	
		Art Unit	2476	
		Examiner Name	HALIYUR, Venekatesh	
Sheet	1	of	25	Attorney Docket No: 020621

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2(f)} (known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/V.H./	001	US4750198	06-07-1988	HARPER; Donald J.	
	002	US4797879	01-10-1989	HABBAB; Isam M. I. et al.	
	003	US5241544	08-31-1993	JASPER; Steven C. et al.	
	004	US5295159	03-15-1994	KERPEZ; Kenneth J.	
	005	US5404355	04-04-1995	RAITH; Alex K.	
	006	US5471647	11-28-1995	GERLACH; Derek et al.	
	007	US5506861	04-09-1996	BOTTOMLEY; Gregory E.	
	008	US5509003	04-16-1996	SNIJERS; Wilfred A. M. et al.	
	009	US5606729	02-25-1997	D'amico; Thomas	
	010	US5638369	06-10-1997	AYERST; Douglas I. et al.	
	011	US5677909	10-14-1997	HEIDE; Carolyn	
	012	US5729542	03-17-1998	DUPONT; Pierre B.	
	013	US5818813	10-06-1998	SAITO; Masafumi et al.	
	014	US5832387	11-03-1998	BAE; Hee-Moon et al.	
	015	US5867539	02-02-1999	KOSLOV; Joshua L.	
	016	US5886988	03-23-1999	YUN; Louis C. et al.	
	017	US5959965	09-28-1999	OHKUBO; Tadatashi et al.	
	018	US5982327	11-09-1999	VOOK; Frederick Werner et al.	
	019	US6049548	04-11-2000	BRUNO; Ronald et al.	
	020	US6084915	07-04-2000	WILLIAMS; Richard G. C.	

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/V.H./	021	US6097771	08-01-2000	FOSCHINI; Gerard Joseph	
	022	US6115354	09-05-2000	WECK; Christfried	
	023	US6131016	10-10-2000	GREENSTEIN; Lawrence Joel et al.	
	024	US6141388	10-31-2000	SERVAIS; Frederic Henri et al.	
	025	US6141542	10-31-2000	KOTZIN; Michael D. et al.	
	026	US6141567	10-31-2000	YOUSSEFMIR; Michael et al.	
	027	US6163296	12-19-2000	LIER; Erik et al.	
	028	US6167031	12-26-2000	OLOFSSON; H.Ang.Kan Gunnar et al.	
	029	US6178196	01-23-2001	NAGUIB; Ayman F. et al.	
	030	US6292917	09-18-2001	SINHA; Deepen et al.	
	031	US6298035	10-02-2001	HEISKALA; Juha	
	032	US6298092	10-02-2001	HEATH, JR.; Robert W. et al.	
	033	US6308080	10-23-2001	BURT; Donald G. et al.	
	034	US6314113	11-06-2001	GUEMAS; Philippe	
	035	US6314289	11-06-2001	EBERLEIN; Ernst et al.	
	036	US6317612	11-13-2001	FARSAKH; Christof	
	037	US6330293	12-11-2001	KLANK; Otto et al.	
	038	US6330462	12-11-2001	CHEN; Tao	
	039	US6333953	12-25-2001	BOTTOMLEY; Gregory E. et al.	

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/V.H./	040	US6345036	02-05-2002	SUDO; Hiroaki et al.	
	041	US6351499	02-26-2002	PAULRAJ; Arogyaswami J. et al.	
	042	US6363267	03-26-2002	LINDSKOG; Jan et al.	
	043	US6377812	04-23-2002	RASHID-FARROKHI; Farrokh et al.	
	044	US6385264	05-07-2002	TERASAWA; Daisuke et al.	
	045	US6452981	09-17-2002	RALEIGH; Gregory G. et al.	
	046	US6473467	10-29-2002	WALLACE; Mark et al.	
	047	US6492942	12-10-2002	KEZYS; Vytas	
	048	US6532225	03-11-2003	CHANG; Li Fung et al.	
	049	US6532255	03-11-2003	GUNZELMANN; Bertram et al.	
	050	US6532562	03-11-2003	CHOU; Philip A. et al.	
	051	US6545997	04-08-2003	BOHNKE; Ralf et al.	
	052	US6574211	06-03-2003	PADOVANI; Roberto et al.	
	053	US6594473	07-15-2003	DABAK; Anand G. et al.	
	054	US6594798	07-15-2003	CHOU; Philip A. et al.	
	055	US6597682	07-22-2003	KARI; Hannu	
	056	US6608874	08-19-2003	BEIDAS; Bassel F. et al.	
	057	US6611231	08-26-2003	CRILLY; Jr. William J. et al.	
	058	US6636568	10-21-2003	KADOUS; Tamer	
	059	US6654613	11-25-2003	MAENG; Seung-Joo et al.	

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		Number-Kind Code ^{2(f)} (known)			
/V.H./	060	US6683916	01-27-2004	SARTORI; Philippe Jean-Marc et al.	
	061	US6693992	02-17-2004	JONES; William W. et al.	
	062	US6697346	02-24-2004	HALTON; John et al.	
	063	US6728233	04-27-2004	PARK; Jin-Soo et al.	
	064	US6731668	05-04-2004	KETCHUM; John W.	
	065	US6735188	05-11-2004	BECKER; Donald W. et al.	
	066	US6738020	05-18-2004	LINDSKOG; Erik D. et al.	
	067	US6751444	06-15-2004	MEIYAPPAN; Palaniappan	
	068	US6751480	06-15-2004	KOGIANTIS; Achilles George et al.	
	069	US6760313	07-06-2004	SINDHUSHAYANA; Nagabhushana T. et al.	
	070	US6760882	07-06-2004	GESBERT; David J. et al.	
	071	US6771706	08-03-2004	LING; Fuyun et al.	
	072	US6785341	08-31-2004	WALTON; Jay R. et al.	
	073	US6792041	09-14-2004	KIM; Beong-Jo et al.	
	074	US6801790	10-05-2004	RUDRAPATNA; Ashok N.	
	075	US6847828	01-25-2005	MIYOSHI; Kenichi et al.	
	076	US6850498	02-01-2005	HEATH; Robert W. et al.	
	077	US6862271	03-01-2005	MEDVEDEV; Irina et al.	
	078	US6862440	03-01-2005	SAMPATH; Hemanth	
	079	US6868079	03-15-2005	HUNT; Bernard	

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/V.H./	080	US6873651	03-29-2005	TESFAI; Yohannes et al.	
	081	US6879579	04-12-2005	MYLES; Andrew Frederick et al.	
	082	US6885708	04-26-2005	THOMAS; Timothy A. et al.	
	083	US6888809	05-03-2005	FOSCHINI; Gerard Joseph et al.	
	084	US6888899	05-03-2005	RALEIGH; Gregory G. et al.	
	085	US6920192	07-19-2005	LAROA; Rajiv et al.	
	086	US6920194	07-19-2005	STOPLER; Danny et al.	
	087	US6937592	08-30-2005	HEATH; Jr. Robert W. et al.	
	088	US6940917	09-06-2005	MENON; Murali Paravath et al.	
	089	US6950632	09-27-2005	YUN; Yu-Suk et al.	
	090	US6952426	10-04-2005	WU; Geng et al.	
	091	US6956813	10-18-2005	FUKUDA; Kunio	
	092	US6956906	10-18-2005	TAGER; Wolfgang et al.	
	093	US6965762	11-15-2005	SUGAR; Gary L. et al.	
	094	US6980800	12-27-2005	NOERPEL; Anthony et al.	
	095	US6985434	01-10-2006	WU; Shiquan et al.	
	096	US6987819	01-17-2006	THOMAS; Timothy A. et al.	
	097	US6990059	01-24-2006	ANIKHINDI; Santosh et al.	
	098	US6992972	01-31-2006	VAN NEE; Richard	
	099	US6996380	02-07-2006	DENT; Paul Wilkinson	

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/N.H./	100	US7006464	02-28-2006	GOPALAKRISHNAN; Nandu et al.	
	101	US7009931	03-07-2006	MA; Jianglei et al.	
	102	US7012978	03-14-2006	TALWAR; Shilpa	
	103	US7020482	03-28-2006	MEDVEDEV; Irina et al.	
	104	US7020490	03-28-2006	KHATRI; Bhavin S.	
	105	US7023826	04-04-2006	SJOBERG; Sten et al.	
	106	US7031671	04-18-2006	MOTTIER; David	
	107	US7035359	04-25-2006	MOLNAR; Karl James	
	108	US7062294	06-13-2006	ROGARD; Roger et al.	
	109	US7068628	06-27-2006	LI; Ye et al.	
	110	US7072381	07-04-2006	ATARASHI; Hiroyuki et al.	
	111	US7095709	08-22-2006	WALTON; Jay R. et al.	
	112	US7110378	09-19-2006	ONGGOSANUSI; Eko Nugroho et al.	
	113	US7110463	09-19-2006	WALLACE; Mark S. et al.	
	114	US7116652	10-03-2006	LOZANO; Angel	
	115	US7133459	11-07-2006	ONGGOSANUSI; Eko N. et al.	
	116	US7149239	12-12-2006	HUDSON; John E.	
	117	US7149254	12-12-2006	SAMPATH; Hemanth	
	118	US7158563	01-02-2007	GINIS; Georgios et al.	
	119	US7164669	01-16-2007	LI; Xiaodong et al.	

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/V.H./	120	US7187646	03-06-2007	SCHRAMM; Peter	
	121	US7190749	03-13-2007	LEVIN; Jeffrey A. et al.	
	122	US7194237	03-20-2007	SUGAR; Gary L. et al.	
	123	US7218684	05-15-2007	BOLOURCHI; Nader et al.	
	124	US7224704	05-29-2007	LU; Xiaolin et al.	
	125	US7233625	06-19-2007	MA; Jianglei et al.	
	126	US7238508	07-03-2007	LIN; Min et al.	
	127	US7242727	07-10-2007	LIU; Jung-Tao et al.	
	128	US7248638	07-24-2007	BANISTER; Brian C.	
	129	US7260153	08-21-2007	NISSANI; et al.	
	130	US7260366	08-21-2007	LEE; Yong-Suk et al.	
	131	US7263119	08-28-2007	HSU; Yungping et al.	
	132	US7280625	10-09-2007	KETCHUM; John W. et al.	
	133	US7283508	10-16-2007	CHOI; Sung-Ho et al.	
	134	US7289570	10-30-2007	SCHMIDL; Timothy et al.	
	135	US7292854	11-06-2007	DAS; Arnab et al.	
	136	US7298778	11-20-2007	VISOZ; Raphael et al.	
	137	US7298805	11-20-2007	WALTON; J. Rodney et al.	
	138	US7308035	12-11-2007	ROUQUETTE; Ste et al.	
	139	US7310304	12-18-2007	MODY; Apurva N. et al.	
	140	US7317750	01-08-2008	SHATTIL; Steve J.	

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See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4
For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. * Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/693,169	
		Filing Date	2003-10-23	
		First Named Inventor	WALLACE; Mark S.	
		Art Unit	2476	
		Examiner Name	HALIYUR, Venekatesh	
Sheet	8	of	25	Attorney Docket No: 020621

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2(f)} (known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/V.H./	141	US7324429	01-29-2008	WALTON; J. Rodney et al.	
	142	US7327800	02-05-2008	OPREA; Alexandru M. et al.	
	143	US7392014	06-24-2008	BAKER; Matthew P. J. et al.	
	144	US7453844	11-18-2008	LEE; Siu Fai et al.	
	145	US7480278	01-20-2009	PEDERSEN; Klaus Ingemann et al.	
	146	US7492737	02-17-2009	FONG; Mo-Han et al.	
	147	US7548506	06-16-2009	MA; Jianglei et al.	
	148	US7551546	06-23-2009	MA; Jianglei et al.	
	149	US7551580	06-23-2009	DU CREST; Gilles et al.	
	150	US7573805	08-11-2009	ZHUANG; Xiangyang et al.	
	151	US7606296	10-20-2009	HSU; Yungping et al.	
	152	US7636573	12-22-2009	WALTON; Jay R. et al.	
	153	US7653415	01-26-2010	VAN ROOYEN; Pieter	
	154	US20010031621	10-18-2001	SCHMUTZ; Thomas R.	
	155	US20010046205	11-29-2001	EASTON; Kenneth D. et al.	
	156	US20020003774	01-10-2002	WANG; Zhaocheng et al.	
	157	US20020018310	02-14-2002	HUNG; Tsan-Yao	
	158	US20020018453	02-14-2002	YU; Yao et al.	
	159	US20020041632	04-11-2002	SATO; Kazushi et al.	
	160	US20020044591	04-18-2002	LEE; Hyun-Woo et al.	

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/V.H./	161	US20020057659	05-16-2002	OZLUTURK; Fatih M. et al.	
	162	US20020064214	05-30-2002	HATTORI; Toshihiro et al.	
	163	US20020085620	07-04-2002	MESECHER; David K.	
	164	US20020085641	07-04-2002	BAUM; Kevin L.	
	165	US20020098872	07-25-2002	JUDSON; Bruce A.	
	166	US20020115473	08-22-2002	HWANG; Jong Yoon et al.	
	167	US20020122381	09-05-2002	WU; Shiquan et al.	
	168	US20020122393	09-05-2002	CALDWELL; Richard J. et al.	
	169	US20020154705	10-24-2002	WALTON; Jay R. et al.	
	170	US20020183010	12-05-2002	CATREUX; Severine E. et al.	
	171	US20020184453	12-05-2002	HUGHES; Suzanne M. et al.	
	172	US20020191535	12-19-2002	SUGIYAMA; Takatoshi et al.	
	173	US20020193146	12-19-2002	WALLACE; Mark et al.	
	174	US20020196842	12-26-2002	ONGGOSANUSI; Eko N. et al.	
	175	US20030012308	01-16-2003	SAMPATH; Hemanth T. et al.	
	176	US20030078024	04-24-2003	MAGEE; David Patrick et al.	
	177	US20030095197	05-22-2003	WHEELER; Richard B. et al.	
	178	US20030099306	05-29-2003	NILSSON; Johan et al.	

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/V.H./	179	US20030112745	06-19-2003	ZHUANG; Xiangyang et al.	
	180	US20030119452	06-26-2003	KIM; Sung-Hoon et al.	
	181	US20030123389	07-03-2003	RUSSELL; Patrick Gene et al.	
	182	US20030128656	07-10-2003	SCARPA; Carl	
	183	US20030139194	07-24-2003	ONGGOSANUSI; Eko N. et al.	
	184	US20030153360	08-14-2003	BURKE; Joseph P. et al.	
	185	US20030157954	08-21-2003	MEDVEDEV; Irina et al.	
	186	US20030162519	08-28-2003	SMITH; Martin et al.	
	187	US20030185309	10-02-2003	PAUTLER; Joseph J. et al.	
	188	US20030202492	10-30-2003	AKELLA; Ramakrishna et al.	
	189	US20030202612	10-30-2003	HALDER; Bijit et al.	
	190	US20030206558	11-06-2003	PARKKINEN; Teemu et al.	
	191	US20030235149	12-25-2003	CHAN; Albert et al.	
	192	US20040037257	02-26-2004	NGO; Chiu Y.	
	193	US20040042556	03-04-2004	MEDVEDEV; Irina et al.	
	194	US20040052228	03-18-2004	TELLADO; Jose et al.	
	195	US20040071104	04-15-2004	BOESEL; Robert W. et al.	
	196	US20040136349	07-15-2004	WALTON; J. Rodney et al.	
	197	US20040156328	08-12-2004	WALTON; J. Rodney et al.	
	198	US20040160987	08-19-2004	SUDO; Hiroaki et al.	

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N.H./	199	US20040176097	09-09-2004	WILSON; Fiona et al.	
↓	200	US20050120097	06-02-2005	WALTON; J. Rodney et al.	
	201	US20050128953	06-16-2005	WALLACE; Mark S. et al.	
	202	US20050208959	09-22-2005	CHEN; Tao et al.	
	203	US20060077935	04-13-2006	HAMALAINEN; Jyri et al.	
	204	US20060104196	05-18-2006	WU; Shiquan et al.	
	205	US20060183497	08-17-2006	PARANCHYCH; David W. et al.	
↓	206	US20070177681	08-02-2007	CHOI; In-Kyeong et al.	
	207	US20100142636	06-10-2010	HEATH; Jr. Robert W. et al.	

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		Country Code ³ - Number*Kind Code ⁵ (if known)				
N.H./	208	AU2002259221	11-25-2002	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
↓	209	CA2690247	10-11-2001	QUALCOMM INCORPORATED [US]		<input checked="" type="checkbox"/>
	210	CN1086061	04-27-1994	ERICSSON GE MOBILE COMMUNICAT.		<input type="checkbox"/>
	211	CN1234661	11-10-1999	SONY INTERNATIONAL (EUROPE) CO., LTD.		<input checked="" type="checkbox"/>
	212	CN1489836A	04-14-2004	MATSUSHITA ELECTRIC		<input type="checkbox"/>

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Sheet	12	of	25	Attorney Docket No: 020621

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/N.H./				INDUSTRIAL CO., LTD [JP]	
	213	EP0755090A1	01-22-1997	NORTHERN TELECOM LTD [CA]	<input type="checkbox"/>
	214	EP0762701	03-12-1997	ADVANCED DIGITAL TELEVISION BROADCASTING LABORATORY [JP]	<input type="checkbox"/>
	215	EP0772329	05-07-1997	DIGI-MEDIA VISION LIMITED.	<input type="checkbox"/>
	216	EP0805568A1	11-05-1997	TRW INC [US]	<input type="checkbox"/>
	217	EP0895387A1	02-03-1999	THOMSON BRANDT GMBH [DE]	<input type="checkbox"/>
	218	EP0929172A1	07-14-1999	LUCENT TECHNOLOGIES INC [US]	<input type="checkbox"/>
	219	EP0951091A2	10-20-1999	LUCENT TECHNOLOGIES INC [US]	<input type="checkbox"/>
	220	EP0991221A2	04-05-2000	LUCENT TECHNOLOGIES INC [US]	<input type="checkbox"/>
	221	EP0993211	04-12-2000	SONY INTERNATIONAL (EUROPE) GMBH.	<input type="checkbox"/>
	222	EP1061446	12-20-2000	SUN MICROSYSTEMS, INC. [US]	<input type="checkbox"/>
	223	EP1075093	02-07-2001	INTERUNIVERSITÄT MICRO-ELEKTRONICA CENTRUM VZW [BE]	<input type="checkbox"/>
	224	EP1087545A1	03-28-2001	NATIONAL UNIV. OF SINGAPORE [SG]	<input type="checkbox"/>
	225	EP1117197A2	07-18-2001	LUCENT TECHNOLOGIES	<input type="checkbox"/>

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				INC [US]		
<i>N.H.</i>	226	EP1133070	09-12-2001	MATSUSHITA ELECTRIC IND CO LTD [JP]		<input type="checkbox"/>
	227	EP1143754A1	10-10-2001	SONY INT EUROPE GMBH [DE]		<input type="checkbox"/>
	228	EP1170879A1	01-09-2002	MATSUSHITA ELECTRIC IND CO LTD [JP]		<input type="checkbox"/>
	229	EP1175022A2	01-23-2002	SAMSUNG ELECTRONICS CO LTD [KR]		<input type="checkbox"/>
	230	EP1182799A2	02-27-2002	LUCENT TECHNOLOGIES INC [US]		<input type="checkbox"/>
	231	EP1185001	03-06-2002	NORTEL NETWORKS LTD [CA]		<input type="checkbox"/>
	232	EP1185015	03-06-2002	ALCATEL (FR)		<input type="checkbox"/>
	233	EP1185048A2	03-06-2002	NORTEL NETWORKS LTD [CA]		<input type="checkbox"/>
	234	EP1207635A1	05-22-2002	LUCENT TECHNOLOGIES INC [US]		<input type="checkbox"/>
	235	EP1207645A1	05-22-2002	LUCENT TECHNOLOGIES INC [US]		<input type="checkbox"/>
	236	EP1223702A1	07-17-2002	LUCENT TECHNOLOGIES INC [US]		<input type="checkbox"/>
	237	EP1241824	09-18-2002	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	238	EP1265411	12-11-2002	SONY INTERNATIONAL GMBH [DE]		<input type="checkbox"/>
	239	EP1315311A1	05-28-2003	FUJITSU LTD [JP]		<input type="checkbox"/>

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		<i>Complete if Known</i>		
		Application Number	10/693,169	
		Filing Date	2003-10-23	
		First Named Inventor	WALLACE; Mark S.	
		Art Unit	2476	
		Examiner Name	HALIYUR, Venekatesh	
Sheet	14	of	25	Attorney Docket No: 020621

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
/V.H./	240	EP1379020	01-07-2004	NATIONAL UNIVERSITY OF SINGAPORE.		<input type="checkbox"/>
	241	EP1387545	02-04-2004	SAMSUNG ELECTRONICS CO., LTD. [KR]		<input type="checkbox"/>
	242	EP1556984A2	07-27-2005	QUALCOMM INC [US]		<input type="checkbox"/>
	243	GB2300337	10-30-1996	* ERICSSON GE MOBILE COMMUNICATIONS INC.		<input type="checkbox"/>
	244	GB2373973A	10-02-2002	TOSHIBA RESEARCH EUROPE LIMITED INCORPORATED [UK]		<input type="checkbox"/>
	245	JP03104430	05-01-1991	NIPPON TELEGRAPH & TELEPHONE CORP.		<input type="checkbox"/>
	246	JP09327073	12-16-1997	N T T IDO TSUSHINMO KK.		<input type="checkbox"/>
	247	JP10028077	01-27-1998	SATO TAKURO WATANABE SOICHI ABE TAKEO.		<input type="checkbox"/>
	248	JP10084324	03-31-1998	LUCENT TECHNOLOGIES INC.		<input checked="" type="checkbox"/>
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	251	JP11069431A	03-09-1999	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	252	JP11074863A	03-16-1999	DEUTSCHE THOMSON BRANDT GMBH.		<input type="checkbox"/>
	253	JP11163823A	06-18-1999	VICTOR CO OF JAPAN		<input checked="" type="checkbox"/>

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 *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
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/N.H./				LTD.	
	254	JP11205273	07-30-1999	TOSHIBA CORP.	<input type="checkbox"/>
	255	JP11252037A	09-17-1999	LUCENT TECHNOLOGIES INC.	<input type="checkbox"/>
	256	JP1132027	05-24-1989	TOSHIBA CORP.	<input checked="" type="checkbox"/>
	257	JP1141159	02-12-1999	NIPPON TELEGR & TELEPH CORP.	<input type="checkbox"/>
	258	JP2000092009A	03-31-2000	SONY CORP.	<input type="checkbox"/>
	259	JP2001044930A	02-16-2001	MATSUSHITA ELECTRIC IND CO LTD.	<input type="checkbox"/>
	260	JP2001186051A	07-06-2001	TOSHIBA CORP.	<input type="checkbox"/>
	261	JP2001217896	08-10-2001	MATSUSHITA ELECTRIC WORKS LTD.	<input type="checkbox"/>
	262	JP2001231074	08-24-2001	NORTEL NETWORKS LTD.	<input type="checkbox"/>
	263	JP2001237751	08-31-2001	LUCENT TECHONLOGIES INC.	<input type="checkbox"/>
	264	JP200186045	03-30-2001	LUCENT TECHNOLOGIES, INC.	<input type="checkbox"/>
	265	JP2002111627	04-12-2002	SONY INTERNATL EUROP GMBH.	<input type="checkbox"/>
	266	JP2002164814	06-07-2002	NIPPON SOKEN INC., et al.	<input type="checkbox"/>
	267	JP2002176379A	06-21-2002	JAPAN TELECOM CO LTD.	<input type="checkbox"/>
	268	JP2002204217	07-19-2002	NTT DOCOMO INC.	<input type="checkbox"/>
	269	JP200264879	02-28-2002	SK TELECOM CO LTD.	<input checked="" type="checkbox"/>

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		Art Unit	2476	
		Examiner Name	HALIYUR, Venekatesh	
Sheet	16	of	25	Attorney Docket No: 020621

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/V.H./	270	JP200277098	03-15-2002	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	271	JP200277104	03-15-2002	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	272	JP2003504941	02-04-2003	SAMSUNG ELECTRONICS CO LTD.		<input type="checkbox"/>
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	275	JP6501139T	01-27-1994	ERIKUSON INC.		<input type="checkbox"/>
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	277	JP9135230	05-20-1997	JISEDAI DIGITAL TELEVISION HOSO SYST KENKYUSHO:KK.		<input checked="" type="checkbox"/>
	278	JP9266466	10-07-1997	SUMITOMO ELECTRIC INDUSTRIES [JP]		<input type="checkbox"/>
	279	JP9307526A	11-28-1997	MITSUBISHI ELECTRIC CORP.		<input type="checkbox"/>
	280	JP9512156	12-02-1997	KONLE TILMAR [DE]		<input type="checkbox"/>
	281	KR1020020003370	01-12-2002	NTT DOCOMO, INC.		<input type="checkbox"/>
	282	KR20060095576A	08-31-2006	QUALCOMM INC.		<input type="checkbox"/>
	283	RU2015281C1	06-30-1994	KONDRASHOV BORIS MIKHAILOVICH.		<input type="checkbox"/>
	284	RU2141168	11-10-1999	MOTOROLA LIMITED [GB]		<input type="checkbox"/>
	285	RU2149509	05-20-2000	QUALCOMM INC [US]		<input type="checkbox"/>

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/N.H./	286	RU2152132	06-27-2000	J NII SVJAZI, et al.		<input type="checkbox"/>
	287	RU2157592	10-10-2000	QUALCOMM INCORPORATED [US]		<input checked="" type="checkbox"/>
	288	RU2158479C2	10-27-2000	AL KATEL N V [NL]		<input type="checkbox"/>
	289	RU2168278	05-27-2001	KORPORATSIJA SAMSUNG EHLEKTRON [KR]		<input type="checkbox"/>
	290	RU2201034C2	03-20-2003	ERICSSON TELEFON AB L M.		<input type="checkbox"/>
	291	RU2335852C2	10-10-2008	QUALCOMM INC.		<input type="checkbox"/>
	292	TW419912	01-21-2001	INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE.		<input checked="" type="checkbox"/>
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	294	WO0011823A1	03-02-2000	RADIX TECHNOLOGIES, INC. [US]		<input type="checkbox"/>
	295	WO0036764A2	06-22-2000	NOKIA NETWORKS OY [FI]		<input type="checkbox"/>
	296	WO0105067A1	01-18-2001	SAMSUNG ELECTRONICS CO LTD [KR]		<input type="checkbox"/>
	297	WO01071928	09-27-2001	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
	298	WO01097400	12-20-2001	QUALCOMM INCORPORATED [US]		<input type="checkbox"/>
	299	WO0126269	04-12-2001	SAMSUNG		<input type="checkbox"/>

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/N.H./				ELECTRONICS CO LTD [KR]	
	300	WO0169801	09-20-2001	INTERDIGITAL TECH CORP [US]	<input type="checkbox"/>
	301	WO0176110A2	10-11-2001	QUALCOMM INC [US]	<input type="checkbox"/>
	302	WO0180510A1	10-25-2001	AWARE INC [US]	<input type="checkbox"/>
	303	WO0182521A2	11-01-2001	QUALCOMM INC [US]	<input type="checkbox"/>
	304	WO0201732A2	01-03-2002	NOKIA CORPORATION [FI]	<input type="checkbox"/>
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	306	WO02060138	08-01-2002	QUALCOMM INCORPORATED [US]	<input type="checkbox"/>
	307	WO02062002A1	08-08-2002	QUALCOMM INC [US]	<input type="checkbox"/>
	308	WO02065664	08-22-2002	QUALCOMM INCORPORATED [US]	<input type="checkbox"/>
	309	WO02069523A1	09-06-2002	MAGNOLIA BROADBAND INC [US]	<input type="checkbox"/>
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	311	WO02073869A1	09-19-2002	ERICSSON TELEFON AB L M.	<input type="checkbox"/>
	312	WO02078211A2	10-03-2002	QUALCOMM INC [US]	<input type="checkbox"/>
	313	WO02082689A2	10-17-2002	MOTOROLA INC [US]	<input type="checkbox"/>
	314	WO02088656	11-07-2002	SENSOR HIGHWAY LIMITED [GB]	<input type="checkbox"/>
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	317	WO0225853A2	03-28-2002	IOSPAN WIRELESS INC [US]	<input type="checkbox"/>
	318	WO0301098A1	02-06-2003	NORTEL NETWORKS LTD [CA]	<input type="checkbox"/>
	319	WO03028153	04-03-2003	ARRAYCOM, INC. [US]	<input type="checkbox"/>
	320	WO03034646A2	04-24-2003	NORTEL NETWORKS LTD [CA]	<input type="checkbox"/>
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	322	WO04002011	12-31-2003	QUALCOMM INCORPORATED [US]	<input type="checkbox"/>
	323	WO04002047	12-31-2003	QUALCOMM INCORPORATED [US]	<input type="checkbox"/>
	324	WO199809395	03-05-1998	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US.	<input type="checkbox"/>
	325	WO2004039011A2	05-06-2004	QUALCOMM INC [US]	<input type="checkbox"/>
	326	WO9530316A1	11-09-1995	MOTOROLA INC [US]	<input type="checkbox"/>
	327	WO9532567A1	11-30-1995	SPECTRIX CORP [US]	<input type="checkbox"/>
	328	WO96022662	07-25-1996	ARRAYCOMM INC [US]	<input type="checkbox"/>
	329	WO96035268	11-07-1996	QUALCOMM INCORPORATED [US]	<input type="checkbox"/>
	330	WO9719525A1	05-29-1997	MOTOROLA INC [US]	<input type="checkbox"/>

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		Examiner Name	HALIYUR, Venekatesh
Sheet	20	of	25
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
/V.H./	331	WO98026523	06-18-1998	ERICSSON INC. [US]		<input type="checkbox"/>
	332	WO98030047A1	07-09-1998	ARRAYCOM, INC. [US]		<input type="checkbox"/>
	333	WO9809381	03-05-1998	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY.		<input type="checkbox"/>
	334	WO9824192A1	06-04-1998	TRW INC [US]		<input type="checkbox"/>
	335	WO99016214	04-01-1999	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION.		<input type="checkbox"/>
	336	WO9903224	01-21-1999	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	337	WO9944379A1	09-02-1999	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>

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/V.H./	338	3GPP2 TIA/EIA/IS-2000.2-A, "Physical Layer Standard for cdma2000: Standards for Spread Spectrum Systems," (March 2000), Telecommunications Industry Association, pp. 1-446.				<input type="checkbox"/>
	339	ALAMOUTI, S.M., "A Simple Transmit Diversity Technique for Wireless Communications," IEEE Journal on Select Areas in Communications, Vol.16, No.8, October 1998, pgs. 1451-1458.				<input type="checkbox"/>
	340	BINGHAM, John A.C.: "MULTICARRIER MODULATION FOR DATA TRANSMISSION: AN IDEA WHOSE TIME HAS COME," IEEE COMMUNICATIONS MAGAZINE, PAGES 5-				<input type="checkbox"/>

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/V.H./		14 (MAY 1990).		
	341	CHEN, K.C. et al., "Novel Space-Time Processing of DS/CDMA Multipath Signal," IEEE 49th, Vehicular Technology Conference, Houston, Texas, May 16-20, 1999, pgs. 1809-1813.	<input type="checkbox"/>	
	342	CHOI, R. et al., "MIMO Transmit Optimization for Wireless Communication Systems," Proceedings of the First IEEE International workshops on Electronic Design, pgs. 1-6, Piscataway, New Jersey, January 29-31 (2002).	<input type="checkbox"/>	
	343	CHUNG, J. et al: "Multiple antenna systems for 802.16 systems." IEEE 802.16 Broadband Wireless Access Working Group <http://ieee802.org/16>, IEEE 802.16abc-01/31, 2001-09-07, Pages 1-5.	<input type="checkbox"/>	
	344	DIGGAVI, S. et al., "Inter-carrier interference in MIMO OFDM," IEEE International Conference on Communications, (August 2002), Vol. 1, pp. 485-489, doi: 10.1109/ICC.2002.996901.	<input type="checkbox"/>	
	345	ETSI TS 101 761-1 v1.3.1, "Broadband Radio Access Networks (BRAN); HIPERLAN Type 2; Data Link Control (DLC) Layer; Part 1: Basic Data Transport Functions," ETSI Standards, European Telecommunications Standards Institute BR (V131), pgs. 1-88 (2001-12).	<input type="checkbox"/>	
	346	FUJII, M.: "Pseudo-Orthogonal Multibeam-Time Transmit Diversity for OFDM-CDMA" pgs. 222-226 (2002).	<input type="checkbox"/>	
	347	GAO, J. et al. "On implementation of Bit-Loading Algorithms for OFDM Systems with Multiple-Input Multiple Output," VTC 2002-Fall, 2002 IEEE 56th, Vehicular Technology Conference Proceedings, Vancouver, Canada, (Sept. 24-28, 2002), IEEE Vehicular Technology Conference, pp. 199-203.	<input type="checkbox"/>	
	348	GORE, D. A., et al.: "Selecting an optimal set of transmit antennas for a low rank matrix channel," 2000 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, PROCEEDINGS. (ICASSP), ISTANBUL, TURKEY, JUNE 5-9, 2000, NEW YORK, NY; IEEE, US, vol. 5 of 6, (2000-06-05), pages 2785-2788, XP001035763, abstract.	<input type="checkbox"/>	
	349	HASSIBI, B. et al., "High Rate Codes That Are Linear In Space And Time," LUCENT Technologies, 2002, pp. 1-55.	<input type="checkbox"/>	
	350	HAUSTEIN, T. et al.: "Performance of MIMO Systems with Channel Inversion," IEEE 55th Vehicular Technology Conference, Birmingham, Alabama, May 6-9 (2002), pgs. 35-39.	<input type="checkbox"/>	

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/V.H./	351	Hayashi, K. et al.: "A New Spatio-Temporal Equalization Method Based On Estimated Channel Response," September 2001, IEEE Transactions on Vehicular Technology, Vol. 50, No. 5, pp. 1250-1259.		<input type="checkbox"/>
	352	HONG, D. K. et al.: "Robust Frequency Offset Estimation for Pilot Symbol Assisted Packet CDMA with MIMO Antenna Systems," IEEE Communications Letters, vol. 6, no. 6, pgs. 262-264, XP-001133262 (June 2002).		<input type="checkbox"/>
	353	IEEE Std 802.11a-1999 (Supplement to IEEE Std 801.11-1999) "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High-Speed physical Layer in the 5GHz Band", pgs. 1-90, September 1999.		<input type="checkbox"/>
	354	ISERTE, P., et al., "Joint beamforming strategies in OFDM-MIMO systems," Acoustics, Speech, and Signal Processing, 1993. ICASSP-93., 1993 IEEE International Conference on , vol.3, sections 2-3, 27-30 April 1993, doi: 10.1109/ICASSP.2002.1005279.		<input type="checkbox"/>
	355	JOHAM, M. et al.: "Symbol Rate Processing for the Downlink of DS-CDMA Systems", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 1, paragraphs 1, 2; IEEE Service Center, Piscataway, US, (2001-01-01), XP011055296, ISSN: 0733-8716.		<input type="checkbox"/>
	356	Jongren, G. et al.: "Utilizing Quantized Feedback Information In Orthogonal Space-Time Block Coding," 2000 IEEE Global Telecommunications Conference, 2(4): 995-999, November 27, 2000.		<input type="checkbox"/>
	357	KIESSLING, M. et al., "Short-term and long-term diagonalization of correlated MIMO channels with adaptive modulation" IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, Vol. 2, September 15, 2002, pp. 593-597.		<input type="checkbox"/>
	358	Kousa M et al.: "Multichannel Adaptive System", IEEE Proceedings I. Solid-State & Electron Devices, Institution of Electrical Engineers. Stevenage, GB, vol. 140, no. 5, Part 1, 1 October 1993 (1993-10-01), pages 357-364, XP000403498, ISSN: 0956-3776.		<input type="checkbox"/>
	359	LEBRUN G., et al., "MIMO transmission over a time varying TDD channel using SVD," Electronics Letters, 2001, Vol. 37, pp.1363-1364.		<input type="checkbox"/>
	360	Li, Lihua et al., "A practical space-frequency block coded OFDM scheme for fast fading broadband channels," 2002. The 13th IEEE International Symposium on Personal, Indoor and Mobile Radio communications, Volume 1, 15-18 Sept. 2002. Page(s): 212-216 vol. 1.		<input type="checkbox"/>
	361	Li, Ye et al., "Simplified Channel Estimation for OFDM Systems with Multiple Transmit Antennas," IEEE Transactions on Wireless Communications, January 2002, Vol. 1, No. 1, pp. 67-75.		<input type="checkbox"/>

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/V.H./	362	MIYASHITA, K. et al.: "High data-rate transmission with eigenbeam-space division multiplexing (E-SDM) in a MIMO channel," VTC 2002-FALL. 2002 IEEE 56TH. VEHICULAR TECHNOLOGY CONFERENCE PROCEEDINGS. VANCOUVER, CANADA, SEPT. 24 - 28, 2002. IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. VOL. 1 OF 4. CONF. 56, (24 September 2002), pp. 1302-1306, XP010608639.	<input type="checkbox"/>	
	363	PAUTLER, J. et al.: "On Application of Multiple-Input Multiple-Output Antennas to CDMA Cellular Systems," IEEE 54th Vehicular Technology Conference Proceedings, Atlantic City, New Jersey, October 7-11 (2001), pgs. 1508-1512.	<input type="checkbox"/>	
	364	SAMPATH, H., et al., "Joint transmit and receive optimization for high data rate wireless communication using multiple antennas," Signals, Systems, and Computers, 1999. Conference Record of the Thirty-Third Asilomar Conference, 24 October 1999 (1999-10-24), XP010373976, pp. 215-219, IEEE, Piscataway, NJ, US.	<input type="checkbox"/>	
	365	Taiwanese Search Report for Application NO. 092129800, TIPO, filed on 2010-4-6.	<input type="checkbox"/>	
	366	TARIGHAT, A. et al. "Performance Analysis of Different Algorithms for cdma2000 Antenna Array System and a New Multi User Beamforming (MUB) Algorithm", Wireless Communications and Networking Conference, Vol. 1, pgs. 409-414, Sep. 23, 2000.	<input type="checkbox"/>	
	367	The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition, IEEE Press: New York (December 2000), Page 902.	<input type="checkbox"/>	
	368	THEON, S. et al.: "Improved Adaptive Downlink for OFDM/SDMA-Based Wireless Networks," IEEE VTS 53rd Vehicular Technology Conference, pgs. 707-711, Rhodes, Greece, May 6-9, (2001).	<input type="checkbox"/>	
	369	TUJKOVIC, D.: "High bandwidth efficiency space-time turbo coded modulation", Institute of Electrical and Electronics Engineers, ICC 2001. 2001 IEEE International Conference on Communications, Conference Record, pgs. 1104-1109, Helsinki, Finland, June 11-14 (2001).	<input type="checkbox"/>	
	370	VAN ZELST, A. et al.: "Space Division Multiplexing (SDM) for OFDM Systems," IEEE 51st Vehicular Technology Conference Proceedings, pgs. 1070-1074, Tokyo, Japan, May 15-18 (2000).	<input type="checkbox"/>	
V	371	WALES, S.W. "A mimo technique within the UTRA TDD standard," MIMO: Communications Systems from Concept to Implementations (Ref. No. 2001/175), IEE Seminar on, (12/12/2001), pp. 1-8., London, UK.	<input type="checkbox"/>	

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/V.H./	372	WARNER, W. et al.: "OFDM/FM Frame Synchronization for Mobile Radio Data Communication", IEEE Transactions on Vehicular Technology, August 1993, Vol. 42, No. 3, pgs. 302-313.		<input type="checkbox"/>
↓	373	Wolniansky, P.W.; Foschini, G.J.; Golden, G.D.; Valenzuela, R.A.;, "V-BLAST: an architecture for realizing very high data rates over the rich-scattering wireless channel," Signals, Systems, and Electronics, 1998. ISSSE 98. 1998 URSI International Symposium, pp.295-300, (29 Sep-2 Oct 1998), doi: 10.1109/ISSSE.1998.738086.		<input type="checkbox"/>
	374	WONG, Cheong. et al., "Multiuser OFDM with Adaptive Subcarrier, Bit and Power Allocation," October 1999, IEEE Journal on Selected Areas in Communications, Vol. 17, No. 10, pages 1747-1758.		<input type="checkbox"/>
	375	WONG K. K., et al., "Optimizing time and space MIMO antenna system for frequency selective fading channels," IEEE Journal on Selected Areas in Communications, Vol. 19, No. 7, July 2001, Sections II and III and V, 1396, pp. 1395-1407.		<input type="checkbox"/>
	376	YOSHIKI, T., et al., "A Study on Subcarrier Adaptive Demodulation System using Multilevel Transmission Power Control for OFDM/FDD System," The Institute of Electronics, Information and Communications Engineers general meeting, lecture collection, Japan, March 7, 2000, Communication 1, page 400.		<input type="checkbox"/>

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None (filed with RCE)

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/jameshuntancyjr53809/	Date (YYYY-MM-DD)	2011-06-08
Name/Print	James Hunt Yancey, Jr.	Registration Number	53809

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